

PTO/SB/08A(08-03)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
				Application Number	10/817,133	
				Filing Date	April 1, 2004	
				First Named Inventor	WOODS et al.	
				Art Unit	1746	
Examiner Name	Stinson, Frankie L.					
Attorney Docket Number	LAM2P475					
Sheet	1	of	1			

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U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/JH/	A	6,446,358	09/10/02	Mitsumori et al.	
/JH/	B	6,629,540	10/07/03	Mitsumori et al.	
	C				
	D				
	E				
	F				
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Foreign Patent Documents

Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
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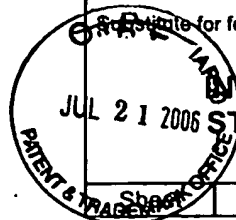
Non Patent Literature Documents

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Examiner Signature	/Jason Heckert/	Date Considered	03/23/2007
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Space for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)

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Application Number	10/817,398
Filing Date	April 1, 2004
First Named Inventor	KOROLIK et al.
Art Unit	1746
Examiner Name	Unassigned
Attorney Docket Number	LAM2P467

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/JH/	A	2003/0091754	05/15/03	Chihani et al.	
/JH/	B	2003/0092264	05/15/03	Shinji et al.	
/JH/	C	2004/0060573	04/01/04	Woods	
/JH/	D	2004/0069329	04/15/04	De Larios et al.	
/JH/	E	2004/0136494	07/15/04	Lof et al.	
/JH/	F	2004/0178060	09/16/04	Ravkin et al.	
/JH/	G	2004/0182422	09/23/04	Boyd et al.	
/JH/	H	2005/0132515	12/18/03	Boyd et al.	
/JH/	I	2005/0139318	06/30/05	Woods et al.	
/JH/	J	2005/0145265	07/07/05	Ravkin et al.	
/JH/	K	2005/0145267	04/01/04	Korolik et al.	
/JH/	L	2005/0145268	04/01/04	Woods	
/JH/	M	2005/0148197	04/01/04	Woods et al.	

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		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
/JH/	N	EP 1 489 461 A1	12/22/04	ASML Netherlands B.V.		<input type="checkbox"/>
/JH/	O	EP 1 489 462 A2	12/22/04	ASML Holding N.V.		<input type="checkbox"/>

Non Patent Literature Documents

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/JH/	P	LIM et al., "Atomic Layer deposition of transition metals", Department of Chemistry and Chemical Biology, Harvard University, Nature Publishing Group, Volume 2, November 2003, Pages 749-754
/JH/	Q	ICKnowledge LLC, "Technology Backgrounder: Atomic Layer Deposition", ICKnowledge.com, 2004, Pages 1-7

Examiner Signature	/Jason Heckert/	Date Considered	03/23/2007
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/JH/	A	2005/0217703	10/06/05	O'Donnell	
/JH/	B	2006/0064895	03/30/06	Garcia et al.	
/JH/	C	3,953,265	04/27/76	Hood	
/JH/	D	4,637,123	01/04/83	Beck	
/JH/	E	4,444,492	04/24/84	Lee	
/JH/	F	4,838,289	06/13/89	Kottman et al.	
/JH/	G	5,102,494	04/07/92	Harvey et al.	
/JH/	H	5,180,431	01/19/93	Sugimoto et al.	
/JH/	I	5,271,774	12/21/93	Leenaars et al.	
/JH/	J	5,343,234	08/30/94	Kuehnle	
/JH/	K	5,361,449	11/08/94	Akimoto	
/JH/	L	5,472,502	12/05/95	Batchelder	
/JH/	M	5,558,111	09/24/96	Lofaro	

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		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
/JH/	N	JP11031672 (Patent Abstract in English provided)	02/02/99	Hitachi Ltd.		
/JH/	O	JP62150828 A (Patent Abstract in English provided)	07/04/87	Mitsubishi Electric Corporation		<input type="checkbox"/>

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/JH/	P	"Chemical vapor deposition", Wikipedia, the free encyclopedia, http://en.wikipedia.org/wiki/Chemical_vapor_deposition , 2005, Page 1-2
/JH/	Q	OWA et al. "Immersion lithography; its potential performance and issues", Proceedings of the SPIE, SPIE, Bellingham, VA, US, Vol. 5040, No. 1, February 28, 2003, pages 724-733, XP002294500

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/JH/	A	5,709,757	01/20/98	Hatano et al.	
/JH/	B	5,893,004	04/06/99	Yamamura	
/JH/	C	6,086,454	07/11/00	Watanabe et al.	
/JH/	D	6,092,937	07/25/00	Snodgrass et al.	
/JH/	E	6,103,636	08/15/00	Zahorik et al.	
/JH/	F	6,108,932	08/29/00	Chai	
/JH/	G	6,214,513	04/10/01	Cai et al.	
/JH/	H	6,230,722	05/15/01	Mitsumori et al.	
/JH/	I	6,417,117	07/09/02	Davis	
/JH/	J	6,433,541	08/13/02	Lehman et al.	
/JH/	K	6,474,786	11/05/02	Percin et al.	
/JH/	L	6,488,040	12/03/02	De Larios et al.	
/JH/	M	6,495,005	12/17/02	Colgan et al.	

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/JH/	P	SIGMA-ALDRICH, "Atomic Layer Deposition (ALD)", http://www.sigmaaldrich.com/Area_of_Interest/Chemistry/Materials Science/Thin Films , 2005, Pages 1-2
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				Art Unit	1746
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Sheet	4	of	4	Attorney Docket Number	LAM2P467

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		Number-Kind Code ² (if known)			
/JH/	A	6,530,823	03/11/03	Goodarz et al.	
/JH/	B	6,550,988	04/22/03	Sugimoto et al.	
/JH/	C	6,616,772	09/09/03	De Larios et al.	
/JH/	D	6,689,323	02/10/04	Fisher et al.	
/JH/	E	6,764,720	07/20/04	Pui et al.	
/JH/	F	6,799,584	10/05/04	Yogev et al.	
/JH/	G	6,854,473	02/15/05	Hanson et al.	
/JH/	H	6,954,993	10/18/05	Smith et al.	
/JH/	I	6,988,326	01/24/06	O'Donnell et al.	
/JH/	J	6,988,327	01/24/06	Garcia et al.	
/JH/	K	7,000,622	02/21/06	Woods et al.	
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Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
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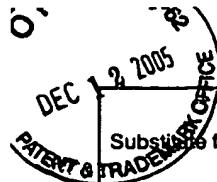
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/JH/	A	4,086,870	05/02/78	Canavello et al.	
/JH/	B	5,294,257	03/15/94	Kelly et al.	
/JH/	C	6,514,570	02/04/03	Matsuyama et al.	
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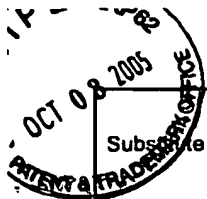
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/JH/	A	2004/069319	4/15/04	Boyd et al.	
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/JH/	C	5,601,655	2/11/97	Bok et al.	
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/JH/	A	2002/0121290 A1	9/5/02	TANG et al.	
/JH/	B	2002/0125212 A1	9/12/02	MERTENS et al.	
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		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
/JH/	G	EP 0 905 746 A1	3/31/99	Interniversitair Micro-Elektronica Centrum VZW		<input type="checkbox"/>
/JH/	H	EP 0 905 747 A1	3/31/99	Interniversitair Micro-Elektronica Centrum VZW		<input type="checkbox"/>
/JH/	I	WO 99/16109 A1	4/1/99	Interniversitair Micro-Elektronica Centrum VZW		<input type="checkbox"/>
/JH/	J	WO 02/001613 A3	1/3/02	Applied Materials, Inc.		<input type="checkbox"/>

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/JH/	K	J.A. BRITTEN, "A moving-zone Marangoni drying process for critical cleaning and wet processing," October, 1997, <i>Solid State Technology</i>
	L	

Examiner Signature	/Jason Heckert/	Date Considered	03/23/2007
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/817,398
				Filing Date	April 1, 2004
				First Named Inventor	Mikhail KOROLIK et al.
				Art Unit	1746
Examiner Name	Unassigned				
Sheet	2	of	3	Attorney Docket Number	LAM2P467

U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/JH/	A	5,830,334	11/3/98	KOBAYASHI	
/JH/	B	5,882,433	3/16/99	UENO	
/JH/	C	5,975,098	11/2/99	YOSHITANI et al.	
/JH/	D	5,989,478	11/23/99	OUELLETTE et al.	
/JH/	E	6,132,586	10/17/00	ADAMS et al.	
/JH/	F	6,531,206	3/11/03	JOHNSTON et al.	

Foreign Patent Documents

Examiner Initial	Cite No.	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
/JH/	G	WO 02/32825 A1	4/25/02	The Regents of the University of California		<input type="checkbox"/>
/JH/	H	WO 02/101795 A3	12/19/02	Verteq, Inc.		<input type="checkbox"/>
/JH/	I	JP08277486 (Patent Abstract in English provided)	10/22/96	Dainippon Printing Co. Ltd.		<input type="checkbox"/>
/JH/	J	JP05837190 (Patent Abstract in English provided)	03/04/83	Sonitsukusu: KK		<input type="checkbox"/>

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
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	L	

Examiner Signature	/Jason Hecker/	Date Considered	03/23/2007
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¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete If Known	
				Application Number	10/817,398
				Filing Date	April 1, 2004
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				Art Unit	1746
				Examiner Name	Unassigned
Sheet	3	of	3	Attorney Docket Number	LAM2P467

U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A				
	B				
	C				
	D				
	E				
	F				

Foreign Patent Documents

Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
/JH/	G	JP02280330 (Patent Abstract in English provided)				<input type="checkbox"/>
/JH/	H	JP02309638 (Patent Abstract in English provided)				<input type="checkbox"/>
/JH/	I	JP11350169 (Patent Abstract in English provided)				<input type="checkbox"/>
	J					<input type="checkbox"/>

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	K	
	L	

Examiner Signature	/Jason Heckert/	Date Considered	03/23/2007
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Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Attorney Docket No:	U.S.
	LAM2P467	Not Assigned
	Applicant:	
	KOROLIK et al.	
	Filing Date:	Group:
		Not Assigned

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class
/JH/	A	US 6,398,975 B1	06/2002	Mertens et al.	216	92
/JH/	B	US 6,491,764	12/2002	Mertens et al.	134	36
/JH/	C	4,838,289	06/1989	Kottman et al.	134	153
/JH/	D	5,271,774	12/1993	Leenaars et al.	134	31
/JH/	E	5,705,223	01/1998	Bunkofske	427	240
/JH/	F	5,945,351	08/1999	Mathuni	438	706
/JH/	G	5,997,653	12/1999	Yamasaka	134	2
	H					

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
/JH/	I	JP02280330	11/1990	JPO	H01L	21/304		
/JH/	J	JP02309638	12/1990	JPO	H01L	21/306		
/JH/	K	JP11350169	12/1999	JPO	H01L	21/306		
	L							
	M							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	N	
Examiner /Jason Heckert/		Date Considered 03/23/2007

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